

Attorney Docket No.: Moran 3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICEIn re Application of
Joseph M. Moran

Examiner:

Group Art: 2852

Title: OUTGAS PREVENTION IN
ELECTROOPTICAL PACKAGES

Serial No.: 10/071,141

Filed: February 7, 2002

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NOV 07 2002

Commissioner of Patents and Trademarks
Washington, D.C. 20231

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PRELIMINARY AMENDMENT

Sir:

Enclosed is a Preliminary Amendment. No additional fee is believed due since the total number of claims and the number of independent claims have both been reduced.

Respectively submitted,
Joseph M. Moran, Applicant

By: 

Irwin Ostroff
Registration No.: 26,013
Attorney for Applicant

November 7, 2002

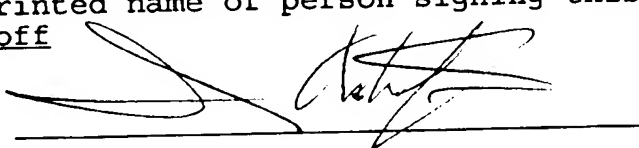
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Attorney Docket No.: Moran 3 *Moore***IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**In re Application of
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PRELIMINARY AMENDMENT

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Sir:

Please amend the application as follows:

Amend claims 1, 10, 15, 17, and 23 as follows:

1 (Amended). A packaging member for forming at least part of a hermetic package, said packaging member having a portion thereof for forming an interior surface of a hermetic package and having at least one side wall which at least partly defines an opening therethrough, said packaging member comprising:

an optical element passing through said opening in said packaging member;

a bonding material bonding said optical element to at least a portion of said one side wall of said packaging member, said bonding material having a surface adjacent said portion of said housing member for forming an interior surface, said bonding material being prone to emission of undesirable components into the interior of the hermetic package;

said bonding material is recessed in said opening such that the bonding material does not extend beyond said portion forming an interior surface; and

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a layer of sealing material covering said surface of said bonding material adjacent said portion of said housing member, said layer of sealing material being one which is not prone to emission of undesirable components and which limits undesirable components emitted from the bonding material from entering the interior of the hermetic package.

10 (Amended). A hermetic package comprising:

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a packaging member for forming at least part of a hermetic package, said packaging member having a portion thereof for forming an interior surface of a hermetic package;

said packaging member defining an opening extending therethrough;

an optical element passing through said opening in said packaging member;

a bonding material which bonds said optical element to said packaging member, said bonding material having a surface adjacent said portion of said housing member for forming an interior surface, said bonding material being prone to emission of undesirable components into the interior of the hermetic package;

said bonding material is recessed in said opening such that the bonding material does not extend beyond said portion forming an interior surface; and

a layer of sealing material on and covering said surface of said bonding material adjacent said portion of said housing member, said layer of sealing material not being prone to emitting undesirable components and limiting undesirable components emitted by said bonding material from entering the interior of the hermetic package; and

an additional member attached to said packaging member to form a complete hermetically sealed package.

15 (Amended). A process of sealing an optical element bonded to a support member using bonding material comprising the steps of:

placing an optical element through an opening in the support member with the cross-section of the opening being greater than the cross-section of the optical element and with the optical element projecting beyond said support member;

filling a space between said optical element and said support member with a bonding material which is prone to emit undesirable components;

removing a portion of said bonding material so as to leave said bonding material recessed below the surface of said support member;

coating said bonding material and the projecting portion of said optical element with a layer of material which is not prone to emitting undesirable components and which limits passage of any undesirable components emitted by said bonding material; and

removing that portion of said layer of material which coats said projecting portion of said optical element while leaving that portion of said layer of material which coats said bonding material intact.

17 (Amended). The process of claim 15 wherein said step of removing that portion of said layer of material which coats said projecting portion of said optical element also removes said projecting portion of said optical element to leave said optical element flush with the surface of said support member.

23 (Amended). A packaging member, which forms at least part of a hermetic package that defines an opening therethrough and has a portion thereof for forming an interior surface of the hermetic package, said packaging member comprising:

a connector element passing through said opening in said packaging member;

a bonding material bonding said connector element to said packaging member, said bonding material having a surface adjacent said portion of said packaging member for forming an interior surface, said bonding material being prone to emission of undesirable components into the interior of the hermetic package;

said bonding material is recessed in said opening such that the bonding material does not extend beyond said portion forming an interior surface; and

a layer of sealing material on and covering said surface of said bonding material adjacent said portion of said housing member, said layer of sealing material not being prone to

emitting undesirable components and limiting undesirable components emitted by said bonding material from entering the interior of the hermetic package.

Cancel claims 5, 6, 7, 8, 9, 14, 16, 21, 30, and 31.

REMARKS

Claims 1, 10, 15, 17, and 23 have been amended and claims 5, 6, 7, 8, 9, 14, 16, 21, 30 and 31 have been cancelled. A clean draft of the amended claims is provided above and a marked-up draft with changes shown by brackets and underscores is shown in the attached appendix. Accordingly, claims 1 (Amended), 2, 3, 4, 10 (Amended), 11, 12, 13, 15 (Amended), 17, 18, 19, 20, 22, 23 (Amended), 24, 25, 26, 27, 28, 29, and 32 remain in the application.

Respectfully submitted,
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November 6, 2002

Attachment
Appendix

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